

## ABSTRACT OF THE DISCLOSURE

An extender for an electrical data bus including a power line and signal lines has first and second electrical connectors for connection to respective electrical connectors attached to respective electrical data buses. The electrical connectors include a data interface circuit for communication with the electrical bus, an optical transmitter and optical receiver 5 electrically connected to the data interface circuit, and driver circuits for the optical transmitter and optical receivers. The driver circuits obtain power from the power line on the local electrical data bus. An optic fiber is connected between the optical transmitters and receivers at respective first and second electrical connectors to transfer data optically 10 between the first and second electrical connectors and thereby extend the range of the data bus.